

FIG. 1

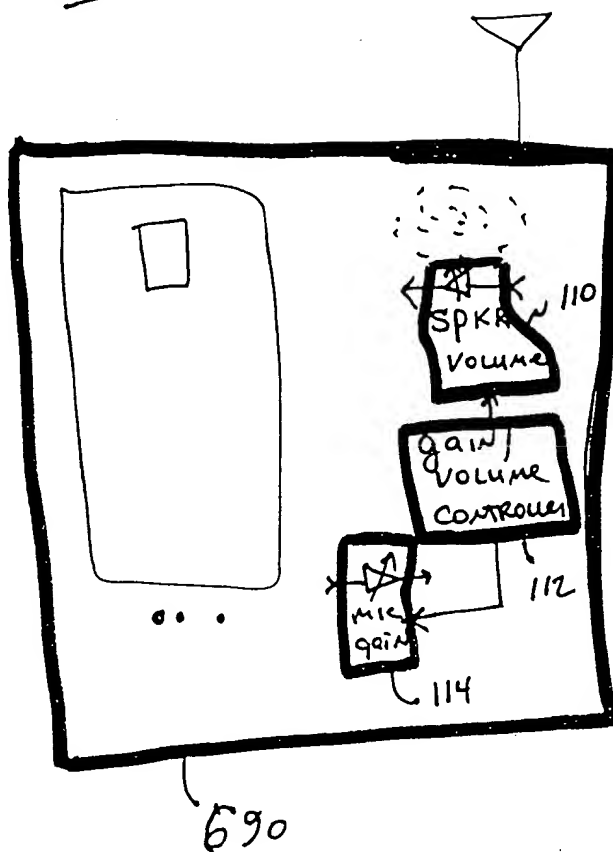


Fig. 2

```

graph TD
    Start([START]) --> Decision1{ARE  
BASE UNIT AND  
HANDSET OPERATING  
SIMULTANEOUSLY?  
202}
    Decision1 -- No --> Process1[TURN/leave  
MICROPHONE  
ON  
204]
    Decision1 -- YES --> Process2[DETERMINE PROXIMITY OF HANDSET TO  
BASE UNIT  
206]
    Process2 --> Decision2{IS  
PROXIMITY  
≤ THRESHOLD  
DISTANCE?  
208}
    Decision2 -- No --> Process3[TURN/leave  
microphone  
ON  
210]
    Decision2 -- YES --> Process4[MUTE/ATTENUATE MICROPHONE  
212]
    Process1 --> Join1(( ))
    Process3 --> Join1
    Process4 --> Join2(( ))
    Join1 --> Join2
    Join2 --> End([END])
  
```

FIG. 3

The diagram illustrates a system for determining proximity based on Received Signal Strength Indicator (RSSI) and distance tables. The components and their interconnections are as follows:

- RF FRONT END (~139)**: Receives input from the left and outputs to the **mic. gain** block.
- mic. gain (~114)**: A block containing a microphone symbol, receiving input from the RF FRONT END.
- gain / volume CONTROLLER (~112)**: Receives bidirectional signals from the **mic. gain** and **SPKR Volume** blocks, and outputs to the **Proximity Determinator**.
- SPKR Volume (~110)**: A block containing a speaker symbol, receiving input from the **gain / volume CONTROLLER**.
- Proximity Determinator (~310)**: The central processing unit that receives input from the **mic. gain** and **SPKR Volume** blocks, and outputs to the **Distance to Attenuation Table**.
- RSSI to distance Table (~311)**: A table that provides input to the **Proximity Determinator**.
- Distance to Attenuation Table (~313)**: A table that receives input from the **Proximity Determinator** and outputs to the **Receive Signal Strength Indicator (RSSI) MODULE (~320)**.
- Receive Signal Strength Indicator (RSSI) MODULE (~320)**: A module that receives input from the **Distance to Attenuation Table** and outputs to the **Proximity Determinator**.

The entire system is enclosed in a box labeled **100** at the bottom.

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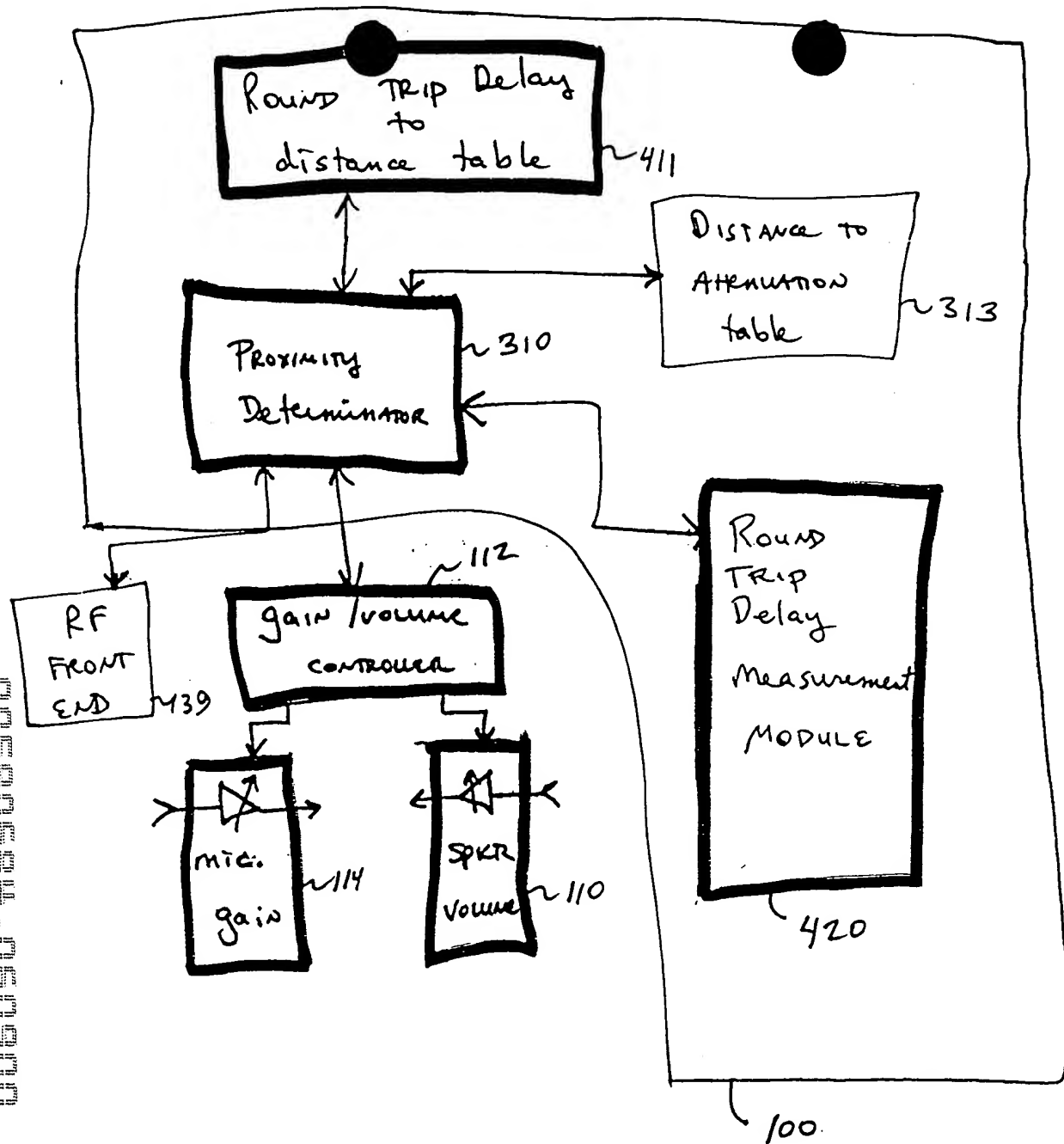


FIG. 5

The diagram illustrates a system 100. It includes an RF front end 139, a proximity determinator 310, a distance to attenuation table 313, a gain/volume controller 112, a microphone gain block 114, a speaker volume block 110, and a GPS unit 520. The RF front end 139 is connected to the proximity determinator 310. The proximity determinator 310 is connected to the distance to attenuation table 313 and the gain/volume controller 112. The distance to attenuation table 313 is connected to the gain/volume controller 112. The gain/volume controller 112 is connected to the microphone gain block 114 and the speaker volume block 110. The microphone gain block 114 is connected to the microphone 116. The speaker volume block 110 is connected to the speaker 118. A GPS unit 520 is also connected to the gain/volume controller 112. A base unit with GPS position 517 is connected to the proximity determinator 310. The entire system is labeled 100.

FIG. 6

